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3150 2756A>G D919G
3207 2813G>T S938I
3209 2815G>C G939R
5444 5050C>A 3'
5551 5157G>A 3'
5573 5179C>T 3'
5659 5265T>C 3'
5678 5284T>C 3'
5874 5480C>T 3'
5934 5540A>G 3'
D78586 D78586 114010 GEN-BR CAD PROTEIN
3434 3408C>T Silent
4313 4287T>C Silent
4799 4773A>G Silent
5255 5229C>T Silent
5455 5429G>A R1810Q
5507 5481T>C Silent
5810 5784C>T Silent
6128 6102C>T Silent
6626 6600C>T Silent
6686 6660C>T Silent
U09178 U09178 274270 GEN-HA
Dihydropyrimidine Dehydrogenase
166 85T>C C29R
577 496A>G M166V
638 557A>G Y186C
1708 1627A>G I543V
3432 3351T>C 3'
3682 3601C>T 3'
3730 3649G>A 3'
3925 3844A>G 3'
3937 3856T>C 3'
U19720 U19720 600424 GEN-I1 Folate
Transporter (SLC19A1)
175 80G>A R27H
341 246C>G Silent
791 696C>T Silent
1067 972G>A Silent
1337 1242C>A Silent
1997 1902T>C 3'
2100 2005^2006insG 3'
2582 2487T>G 3'
2617 2522C>T 3'
2652 2557T>C 3'

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U92868 U92868 600424 GEN-LUK Homo sapiens reduced
folate carrier (RFC1) gene, exons 1a, 1c and 1b

431	431A>G	Intron
441	441A>G	Intron
498	498C>T	Intron
579	579G>C	Intron
599	599G>C	Intron

X02308 X02308 188350 GEN-KL Thymidylate
synthetase

1066	961T>C	3'
1136	1031A>G	3'
1497	1392T>A	3'

D00517 D00517 188350 GEN-LUC Thymidylate
synthase, promoter

276	276C>T	Intron
321	321T>C	Intron
452	452G>A	Intron
457	457^insC	Intron
491	491C>A	Intron
533	533T>C	Intron
624	624A>C	Intron
639	639A>G	Intron
655	655T>C	Intron

D00596 D00596 188350 GEN-LUD Homo sapiens
gene for thymidylate synthase, exons 1, 2, 3, 4, 5, 6, 7,
complete cds

701	701A>C	Intron
716	716A>G	Intron
732	732T>C	Intron
1293	1293A>G	Intron
1322	1322C>G	Intron
1379	1379T>C	Intron
1590	1590C>T	Intron
1688	1688C>G	Intron
2401	2401A>G	Intron
2429	2429G>A	Intron
2488	2488C>T	Intron
2594	2594G>T	Intron
2618	2618G>A	Intron
3083	3083G>A	Intron
3125	3125G>A	Intron
3212	3212C>T	Intron
3619	3619T>A	Intron
3635	3635G>A	Intron
4256	4256G>A	Intron

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E/

4898	4898A>G	Intron
5006	5006C>T	Intron
5062	5062G>A	Intron
5167	5167G>A	Intron
11069	11069A>G	Intron
11238	11238C>T	Intron
11293	11293T>G	Intron
11422	11422T>C	Intron
11686	11686C>T	Intron
12598	12598T>C	Intron
13171	13171T>C	Intron
13298	13298G>A	Intron
13645	13645T>C	Intron
13751	13751C>A	Intron
13782	13782T>C	Intron
13806	13806T>C	Intron
13813	13813T>C	Intron
14479	14479A>G	Intron
14546	14546^insT	Intron
14585	14585C>T	Intron
14729	14729G>A	Intron
14787	14787C>T	Intron
14795	14795G>A	Intron
15041	15041T>C	Intron
15343	15343G>A	Intron
15449	15449G>A	Intron
15502	15502G>A	Intron
15545	15545C>T	Intron
15589	15589A>G	Intron
15769	15769C>T	3'
15839	15839A>G	3'
16148	16148G>A	3'
16198	16198T>G	3'
16202	16202G>T	Intron
X59618	X59618	180390
reductase M2	polypeptide	GEN-M3
		Ribonucleotide
128	(-67)G>A	5'
189	(-6)T>G	5'
524	330C>G	Silent
1399	1205T>A	3'
1464	1270G>A	3'
1636	1442C>T	3'
1738	1544C>T	3'
2259	2065T>C	3'

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S72487	S72487	131222	GEN-3LD	Thymidine
phosphorylase, partial				
183		19G>A		D7N
483		319C>T		3'
601		437G>C		3'
1299		1135G>A		3'
M58602	M58602	131222	GEN-LUB	Thymidine
phosphorylase, promoter and genomic				
124		124C>T		3'
439		439G>A		3'
1044		1044^insCT		3'
1331		1331G>A		3'
1977		1977G>A		Intron
2149		2149G>A		Intron
2467		2467A>G		Intron
2634		2634C>G		Intron
2975		2975G>A		Intron
3116		3116G>T		Intron
3255		3255A>C		Intron
3344		3344T>C		Intron
4051		4051C>A		Intron
4782		4782G>A		Intron
5022		5022T>C		Intron
5266		5266G>A		Intron
5285		5285C>G		Intron
5438		5438T>A		Intron
5482		5482C>T		Intron
5629		5629G>A		Intron
5648		5648C>T		Intron
5731		5731G>A		Intron
M98045	M98045	136510	GEN-4C3	Homo sapiens
folylpolyglutamate synthetase mRNA, complete cds				
802		732C>T		Silent
1747		1677G>T		3'
1900		1830T>C		3'
U24253	U24253	136510	GEN-LUE	Human
folylpolyglutamate synthetase (FPGS) gene, exons 5-11, and partial cds				
1424		1424C>A		Intron
1649		1649G>A		Intron
2554		2554A>G		Intron
U24252	U24252	136510	GEN-LUF	
Folylpolyglutamate synthetase, promoter and exons 1-4				
263		263A>G		Intron
266		266G>T		Intron

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527 527C>G Intron
1037 1037A>G 5'
1139 1139G>A Intron
1217 1217C>T Intron
1647 1647C>T Intron
1955 1955G>A Intron
2017 2017G>A Intron
2037 2037G>A Intron
2189 2189A>G Intron
2282 2282C>T Intron
2309 2309A>G Intron

U09806 U09806 236250 GEN-4FZ Human
methylenetetrahydrofolate reductase mRNA, partial cds (SEQ ID
NO:1)

120 120T>C Silent
464 464T>G M155R
519 519C>T Silent
668 668C>T A223V
1059 1059T>C Silent
1289 1289C>A 3'
1308 1308T>C 3'
1784 1784G>A 3'

AF061655 AF061655 123920 GEN-LUJ Cytidine
deaminase, promoter

575 575T>C Intron
648 648T>C Intron
771 771G>C Intron
883 883G>A Intron
941 941^insC 5'
1051 1051A>C K27Q

In the Claims:

Please amend claims 182-201 as follows:

182. (Amended) An isolated nucleic acid probe comprising at least 15 contiguous nucleotides of the nucleotide sequence of SEQ ID NO:1 (methylenetetrahydrofolate reductase), the probe comprising at least one of: